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SYNONYMY OF THE PROVANCHER COLLECTION OF HEMIPTERA.

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Through the kindness of Rev. A. Huard, of Quebec, I recently had an opportunity to examine the Provancher collection of Hemiptera now deposited in the Museum of Public Instruction in the Parliament Buildings in that city. This collection has been well cared for and is in excellent state of preservation. The main part of the collection seems to represent the exact material used by the Abbé in the preparation of the Hemiptera volume of his *Petite Faune Entomologique du Canada*, practically all the species included in that volume being in the collection in the same order as in the book; the few additional species being in most cases placed between the regular rows of the arrangement. Usually there is but one or at most two specimens of each species and the labels seem to be in Provancher's own handwriting. There are no "types" so indicated nor could I find any trace of the types of his species published in 1872 in Vol. IV of the *NATURALISTE CANADIEN*, and I am convinced that he incorporated this material with his general collection at the time he published the *Petite Faune*, or so much of it as he then possessed, and consequently that it will be impossible definitely to locate all of his earlier species. The *Petite Faune* collection however contains Provancher's determination of most of his 1872 species and so far as these specimens agree with his first descriptions they must be taken as representing the nearest approximation to types of his earlier species now in existence.

When starting for Quebec I took with me a good series from my own collection for comparison, covering all the species of which I felt in doubt, and by this means I was enabled to locate nearly all of the species in the *Petite Faune* and most of those of 1872.

In the following notes I have thought it best to give my determination of each of the *Petite Faune* species, indicating all uncertain forms where I had no material with me for direct comparison and so was obliged to depend upon my memory for the determination. Under each species I give first the page in the *Petite Faune*, followed by the name as there

printed. Where the determination is correct this word follows the name and after it is the name now used for the species where it differs from that employed by Provancher.

20. *Thyreocoris unicolor* P. B., correct.
21. *Thyreocoris pulicarius* Germ., correct.
21. *Homæmus æneifrons* Say, correct.
22. *Eurygaster alternatus* Say, correct.
27. *Canthophorus cinctus* P. B., correct. *Sehirus cinctus* P. B.
28. *Pangæus bilineatus* Say, correct.
29. *Podisus cynicus* Say, correct. *Apateticus cynicus* Say.
30. *Podisus modestus* Dall. Under this name is one *Podisus sereiventris* Uhl. pinned to the label and one *modestus* at the side.
31. *Podisus spinosus* Dall., correct. *Podisus maculiventris* Say.
32. *Perillus circumcinctus* Stal, correct. *Perilloides circumcinctus* Stal.
33. *Perillus exaptus* Say, correct. *Perilloides exaptus* Say.
34. *Rhacognathus americanus* Stal., not in the collection.
35. *Brochymena annulata* Fabr. is *4-pustulata* Fabr. (Under the name *4-pustulata* Fabr. is one example of *myops* Stal.)
36. *Euschistus fissilis* Uhler, correct.
36. *Euschistus tristigmus* Say, correct.
38. *Aelia americana* Dall., is *Neottiglossa undata* Say; a dark specimen but not as dark as the western *trilineata* Kirby.
39. *Neottiglossa undata* Say, correct; a pale example. (In the collection is a western specimen of *Thyanta antiguensis* Westw., labelled *Neottiglossa sulcifrons*.)
40. *Hymenarcys nervosa* Say, correct.
40. *Cœnus delius* Say, correct.
41. *Lioderma ligata* Say is *Pentatoma persimilis* Horvath.
42. *Thyana custator* Fabr., correct.
43. *Mormidea lugens* Fabr., correct.
44. *Cosmopepla carnifex* Fabr., correct.
46. *Banasa calva* Say; under this name is a pale example of *dimidiata* Say.
46. *Banasa dimidiata* Say, correct.
46. *Banasa euchlora* Stal, not in the collection.
48. *Acanthosoma cruciata* Say. On this label is an example of *Elasmotethus atricornis* Van D., and by it one of *E. cruciata* Say.

In this collection are the following erroneous determinations: *Thyanta custator* labelled *Trichopepla atricornis* Stal.; *Euschistus servus* Say labelled *E. impictiventris* Stal.; *E. fissilis* Uhler labelled *E. variolarius* P. B.; *Apateticus bracteatus* Fh. labelled *Podisus grandis* Dallas; and *Perilloides exaptus* Say labelled *Perillus splendens* Uhler.

53. *Anasa tristis* De G., correct.

55. *Chelinidea vittigera* Uhler. Under this name is one example of *vittigera* Uhler and one of *tabulata* Burm. Judging from the description the former must have been the one stated to have been taken in Quebec.

55. *Alydus eurinus* Say, correct.

56. *Alydus 5-spinosus* Say, correct.

56. *Alydus pluto* Uhler. Under this name are two females of *eurinus* Say.

57. *Tetrarhinus quebecensis* Prov., is *Protenor belfragei* Hagl. In the collection it stands under the correct name showing that Provancher must have corrected his own determination later.

58. *Capys muticus* Say, correct. *Neides muticus* Say.

58. *Jalysus spinosus* Say, correct.

60. *Corizus punctiventris* Dall, correct. *Stictopleurus crassicornis* Linn.

60. *Corizus lateralis* Say, is *nigristernum* Sign. as usually determined.

61. *Harmostes fraterculus* Say. On this label is an example of *Ortholomus longiceps* Stal.

The following are incorrectly determined; *Ceraleptus* sp. determined as *Orsillus scolopax* Say; *Metapodius terminalis* Dall. as *Anisoscelis corculus* Say; *Metapodius femorata* Fabr. as *Anisoscelis declivis* Say; and *Harmostes reflexulus*, pink form, as *H. serratus* Fabr.

69. *Lygæus bistriangularis* Say, correct.

70. *Lygæus turcicus* Fabr. is *L. kalmii* Stal.

70. *Nysius grænländicus* Zett, is *N. thymii* Zett.

71. *Helonotus abbreviatus* Uhl., correct. *Phlégyas abbreviatus* Uhl.

72. *Cymus tabidus* Stal is *Cymus discors* Horv.

73. *Ædancala crassimana* Fabr. is *O. dorsalis* Say.

74. *Ischnorhynchus didymus* Zett., correct. *I. resedæ* Panz.

75. *Oxycarenum disconotus* Say, correct. *Crophius disconotus* Say.

75. *Ischnodemus falicus* Say is *Peritrechus fraternus* Uhler.

76. *Blissus leucopterus* Say, correct.

77. *Emblethis arenarius* Linn. is *E. vicarius* Horv.

77. *Plociomerus nodosus* Say is *Scolopostethus* sp., probably *diffidens* Horv.

78. *Carpilis ferruginea* Stal, correct.
79. *Ligyrocoris constrictus* Say, correct. *Perigenes constrictus* Say.
80. *Heræus insignis* Uhl. is not in the collection.
81. *Eremocoris ferus* Say, correct.
82. *Trapezonotus nebulosus* Fall., correct.
82. *Pamera bilobata* Say is *Ligyrocoris contractus* Say.
84. *Pterometus canadensis* n. sp. This is the species lately described as *Pseudocnemodus brunneri* by Mr. Barber and must be known as *Pseudocnemodus canadensis* Prov. The following are incorrectly determined: *Oncopeltus fasciatus* Dallas determined as *Lygæus gutta* H. S.; and *Dysdercus mimus* Say as *Lygæus pulchellus* H. S. *Geocoris limbatus* Stal is correctly named. Under the name *Cnemodus mavortius* is an example of the larger dark form which I now consider to be distinct.
85. *Geocoris bullatus* Say, correct.
89. *Anthocoris musculus* Say. This is *A. borealis* Dallas which is probably a synonym of *musculus* Say.
90. *Tetraphleps canadensis* n. sp., correct. *Lytocoris canadensis* Prov.
91. *Triphleps insidiosus* Say, correct.
102. *Collaria meilleuri* Prov., correct.
103. *Collaria oculata* Reut., correct.
103. *Miris instabilis* Uhler, correct. *Stenodema instabilis* Uhler.
104. *Trigonotylus ruficornis* Fall., correct.
104. *Trigonotylus pulcher* Reut., correct.
104. *Leptopterna dolabrata* Linn., correct. *Miris dolabrata* Linn.
106. *Resthenia insignis* Say. Under this name is the black form with the pronotal collar only fulvous. It pertains to Reuter's genus *Platytylillus*.
- NOTE — Under the name *Resthenia nigricollis* is a large black *Lopidea*, and under the name *Resthenia maculicollis* stands *Lopidea confluens* Say. There is also an *Orthotylus congrex* Uhler under the name *Lomatopleura caesar* Reut., but this placing must have been an accident.
106. *Lopidea confluens* Say, correct.
108. *Phytocoris scrupæus* Say is *P. lasiomerus* Reut.
108. *Phytocoris pallicornis* Reut. is *P. tibialis* Reut.
109. *Phytocoris eximius* Reut., correct.
110. *Phytocoris inops* Uhler, correct.
111. *Neurocolpus nubilus* Say, correct.
112. *Compsoecocoris annulicornis* Reut. This is not Reuter's species but a large dark coloured *Phytocoris* of the *eximius* group, perhaps still

undescribed. I have taken the same form about Buffalo and Mr. Moore has sent me specimens taken by him at St. Hilaire, Que.

113. *Calocoris rapidus* Say, correct. *Adelphocoris rapidus* Say.

114. *Calocoris bipunctatus* Fabr., correct.

114. *Pycnopterna amæna* n. sp. This is the *Closterocoris ornata* Uhler and must hereafter be known as *Closterocoris amæna* Prov. Its occurrence at Ottawa, if really taken there, was probably accidental. Its range seems to be restricted to the Pacific region.

116. *Camptobrochis grandis* Uhler, correct.

116. *Camptobrochis nebulosus* Uhler, correct.

118. *Coccobaphes sanguinarius* Uhler, correct.

119. *Lygus pratensis* Linn. is *L. convexicollis* Reut.

120. *Lygus flavonotatus* Prov. is *L. pratensis* Linn., var. *lineolaris* P.B.

120. *Lygus belfragei* Reut. is the red variety of *L. pratensis* Linn.

121. *Lygus invitus* Say. Pinned on this label is a *Lygus tenellus* Van D., and next to it is a *L. invitus* Say.

121. *Lygus contaminatus* Fall. is *L. pabulinus* Linn.

122. *Pæcilocapsus lineatus* Fabr., correct.

123. *Pæcilocapsus affinis* Reut., correct. *Horcias dislocatus affinis* Reut.

123. *Pæcilocapsus marginalis* Reut. I did not find this in the collection, but the determination is undoubtedly correct.

123. *Pæcilocapsus goniphorus* Say, correct. *Horcias dislocatus goniphorus* Say. With this specimen is pinned an example of var. *nigrita* Reut. of the same species.

124. *Orthops scutellatus* Uhler is *Tropidosteptes amænus* Reut., var. *palmeri* Reut.

125. *Systratiotus venaticus* Uhler, correct. *Pæciloscytus venaticus* Uhler.

127. *Pamerocoris brunneus* Prov. On this label is pinned an example of *Plagiognathus politus* Uhler, but as it does not agree at all well with Provancher's description of 1872 I am inclined to think that the type specimen was lost and the present one substituted by error.

127. *Pæciloscytus sericeus* Uhler. On this label is an *Orthotylus flavosparsus* Fall.

128. *Pæciloscytus basalis* Reut. On this label is a *Sthenarops malinus*. Neither this nor the preceding specimens agree with the descriptions in the Petite Faune and may have been placed there by mistake.

129. *Capsus ater* Fieb., correct. Authority should have been *Linnaeus*
130. *Monolocoris filicis* Linn., correct.
131. *Pilophorus bifasciatus* Fabr. is *P. clavatus* Linn.
132. *Stiphrosoma stygica* Say, correct.
133. *Trichia punctulata* Reut. This specimen is in poor condition but is undoubtedly a *Tropidosteptes*, perhaps *pettiti* or *pulmeri*. With it stands a pale example of *Lygus pratensis* Linn.
134. *Stenarops chloris* Uhler is *Tropidosteptes commissuralis* Reut.
134. *Stenarops malinus* Uhler is a large pale *Lygus pratensis* Linn.
135. *Labops hesperius* Uhler, correct.
136. *Orthocephalus saltator* Hahn. A Capsid new to me but certainly not the European *saltator* Hahn.
137. *Chlamydatus luctuosus* n. sp. On this label is a broken specimen of *Dicyphus agilis*, but it does not agree with the description entirely and may be an error.
138. *Orthotylus dorsalis* Prov. is *O. congrex* Uhler. This specimen agrees in all respects with Provancher's description of 1872 and the name must take precedence over Uhler's published in 1887.
140. *Dicyphus californicus* Stal, correct.
141. *Idolocoris famelicus* Uhler is *Macrolophus separatus* Uhler.
141. *Idolocoris agilis* Uhler is correct.
143. *Hyaliodes vitripennis* Say, correct.
144. *Malacocoris provancheri* Burque is a good species of *Diaphnidia* near *pellucida* Uhler.
146. *Parthenicus psalliodes* Reut. On this label is a very poor specimen of *Ilnacora stalii* Reut.
147. *Globiceps flavomaculatus* Fabr. is *Mimoceps gracilis* Uhler.
148. *Oncotylus decolor* Fall., correct. *Lopus decolor* Fall.'
148. *Oncotylus pulchellus* Reut. is *Orthotylus flavosparsus* Fall.
149. *Oncotylus punctipes* Reut. Probably correctly determined. Our American species differs from Reuter's description only in wanting the black pubescence on the antennæ and venter and in having the areoles scarcely darker than the rest of the membrane.
150. *Macrocoleus coagulatus* Uhler, probably correct.
150. *Amblytylus 6-guttatus*, n. sp. A distinct and beautiful species belonging to genus *Macrotylus* I took it at Ottawa.
152. *Psallus delicatus* Uhler is a form of *Plagiognathus obscurus* Uhler.

153. *Plagiognathus fuscus* Prov. Under this name is placed the ordinary form of *P. obscurus* Uhler, but it is not the *fuscus* nor the *dorsalis* of the NAT. CAN., 1872, as quoted by Provancher. The former is very close to if not identical with *P. politus* Uhler.

154. *Plagiognathus rubricans*, n. sp. A good species pertaining to genus *Rhinocapsus* Uhler. It differs from *vanduzeei* Uhler in being larger and in having the second antennal joint entirely black. Mrs. Slosson has recently taken this species at Lake Toxaway, N. C.

155. *Agalliaestes associatus* Uhler, correct. NOTE.—Among the Capsids in this collection is a *Garganus fusiformis* Say named *Megocælum signatum* Dist., and a *Ceratocapsus pumilus* determined as *Ceratocapsus lutescens* Reut

155. *Agalliaestes verbasci* H. S., correct. *Chlamydatius* is now used for this genus.

158. *Corythuca ciliata* Say is a variety of *arcuata* Say.

158. *Corythuca juglandis* Fitch is a typical *arcuata* Say.

159. *Leptostyla oblonga* Say. This seems to be a *Leptobyrsa*, probably *explanata*, but unfortunately I had no specimen for comparison.

159. *Gargaphia tiliæ* Walsh, correct.

160. *Pysatochila plexa* Say, correct.

160. *Leptophya mutica* Say, correct.

162. *Phymata wolfii* Stal is *erosa pennsylvanica* Handl.

165. *Aradus robustus* Uhler is *4-lineatus* Say.

165. *Aradus aequalis* Say is *robustus* Uhler.

166. *Aradus acutus* Say. On this label was a species still undetermined in my collection but quite distinct from *acutus* Say.

166. *Aradus 4-lineatus* Say. The species under this name was new to me and was quite distinct from either *4-lineatus* or *robustus*.

167. *Aradus similis* Say. This seemed to be *tuberculifer* Kirby as nearly as I can tell without comparing specimens directly.

167. *Aradus rectus* Say, correct. *A. lugubris* Fallen.

167. *Brachyrhynchus granulatus* Say. New to me but not *granulatus* as determined in my collection.

168. *Brachyrhynchus lobates* Say is the *granulatus* of my collection.

169. *Aneurus politus* Say is *septentrionalis* Walker.

169. *Aneurus inconstans* Uhler, correct.

170. *Cimex lectularius* Linn., correct.

175. *Coriscus subcoleoptratus* Kirby, correct.

175. *Coriscus propinquus* Reut. is the young of the preceding species.

175. *Coriscus vicarius* Reut. is the larval form of *Alydus eurinus* Say.

176. *Coriscus inscriptus* Kirby is *C. rufusculus* Reut. The name *Reduviolus* is now used for this genus. NOTE.—In the collection is an *Acholla mutispinosa* De G. labelled *Sinea coronata* Stal, and a *Diplocodus exsanguis* Stal. labelled *Acholla tabida* Stal.

176. *Coriscus ferus* Linn., correct.

180. *Sinea diadema* Fabr., correct.

181. *Diplodus luridus* Stal. is *Diplocodus luridus* Stal., female.

181. *Darbanus georgiæ* Prov. is a worn female specimen of *Diplocodus luridus* Stal.

182. *Darbanus palliatus*, n. sp. is the male of *Diplocodus luridus* Stal.

182. *Evagoras marginata*, n. sp., is *Zelus cervicalis* Stal.

183. *Melanolestes picipes*, H. S., correct.

183. *Melanolestes abdominalis*, H. S., correct. Leconte is authority for this species.

184. *Opsicæus personatus* Linn., correct. An immature specimen is his *Reduvius albosignatus* as suggested by him. The name *Reduvius* is now used for *Opsicæus*.

186. *Emesa longipes* De Geer. Under this name is a *Ploiariola*, probably *errabunda* Say.

186. *Cerascopus errabundus* Say. The insect on this label seems to be a *Barce* but I could not locate the species without material for comparison.

189. *Salda ligata* Say, probably correct.

190. *Salda obscura* Prov. is *littoralis* Linn.

190. *Salda major* Prov. is *deplanata* Uhler which name it must supercede as it has priority by one year.

191. *Salda littoralis* Linn. is *interstitialis* Say.

191. *Salda lugubris* Say. Apparently *repleta* Uhler but I could not be certain without specimens for comparison.

192. *Sciadopterus bouchervillei* Prov. is *coriacea* Uhler which name it must supercede having priority.

193. *Limnobates lineata* Say, correct.

195. *Gerris rufoscutellatus* Latr., correct.

195. *Gerris remigis* Say, correct.

195. *Gerris marginatus* Say, correct.

196. *Gerris canaliculatus* Say. This may be *buenoi* Kirk. It is smaller than *marginatus* and stouter than *canaliculatus* usually is but I

could not be certain of the determination without specimens for direct comparison.

197. *Belostoma grisea* Say, correct. *Benacus grisea* Say.

198. *Zaitha fluminea* Say, correct. *Belostoma fluminea* Say.

199. *Ranatra fusca*, P. B. is *R. americana* Montd.

200. *Notonecta irrorata* Uhler, correct.

201. *Notonecta undulata* Say, correct.

202. *Corisa*, spp. My own material in this genus is still unworked and I did not attempt to locate the Provancher species.

204. *Prionosoma villosum*, n. sp. does not differ in any respect from *podopoides* Uhler.

204. *Euschistus jugalis*, n. sp. I could not find this in the collection but from the description I am now strongly inclined to consider it the form of *servus* with acute *humerali* although it might be *conspersus* Uhler.

205. *Platygaster pacificus*, n. sp., correct.

211. *Cicada pruinosa* Say, correct.

212. *Cicada septendecim* Linn., correct. *Tibicina septendecim* Linn.

213. *Cicada canadensis*, n. sp. This is *rimosa* Say more strongly marked with orange on the base of the elytra and wings than usual. I have an exactly similar specimen which I cannot distinguish from *rimosa*. It belongs to genus *Okanagama* Dist. and not to *Tibicen*, and is not *noveboracensis* Emmons as I had conjectured.

214. *Cicada rimosa* Say. The ordinary dark form of this species.

217. *Amphiscepa coqueberti* Kirby is *Otiocerus degeeri* Kirby.

218. *Hysteropterum semivitreum*, n. sp. This species was a surprise to me and I had taken nothing at all allied to it for comparison. It seems to belong to the Californian group of *Issids* and is very close to *Dictyobia permutata* Uhler. It may be an accidental introduction from the west.

219. *Scolops sulcipes* Say, correct.

220. *Helicoptera septentrionalis*, n. sp. This is the *Elidiptera* I have been determining as *septentrionalis* Prov.

221. *Helicoptera vestita*, n. sp., is *Elidiptera opaca* Say.

222. *Cixius stigmatus* Say. This is the *C. stigmatus* of my table published in CAN. ENT., XXXVIII, p. 408, Dec., 1906.

223. *Oliarus quinquelineatus* Say, correct.

223. *Oliarus cinnamomeus*, n. sp., correct.

224. *Delphax unipunctata* Prov. is *Stenocranus dorsalis* Fitch.

225. *Delphax furcata* Prov. This seems to be a good species of *Liburnia*.

229. *Enchenopa binotata* Say, correct.
229. *Enchenopa latipes* Say, correct. *Campylenchia latipes* Say.
230. *Archasia canadensis*, n. sp., is *A. belfragei* Stal.
231. *Janthe expansa* Germ, correct. *Antianthe expansa* Germ.
232. *Entyilia sinuata* Germ. is male of *E. bactriana* Germ.
232. *Entyilia carinata* Germ. is female of *E. bactriana* Germ,
233. *Entyilia concava* Germ. is *E. concisa* Walk.
234. *Ceresa diceros* Say, correct.
235. *Ceresa bubalus* Fabr. On the label is *C. taurina*, Fh. and by it a male of *C. bubalus* Fabr.
235. *Ceresa brevicornis* Fitch. On this label is a female *C. basalis* Walk., and next it is a female *bubalus* Fabr.
235. *Ceresa semicrema* Say. Under this name is a dark male and female of *Ceresa basalis* Walk.
237. *Stictocephala inermis* Fabr., correct.
237. *Stictocephala festina* Say is *lutea* Walk.
238. *Cyrtosia vau* Say is probably correct. This specimen has no cloud at apex of the elytra and is larger and darker than usual.
239. *Cyrtosia trilineata* Say, correct.
239. *Cyrtosia fenestrata* Fitch. Under this name is a dark male of *vau* Say.
240. *Cyrtosia ornata*, n. sp., is the male of *C. cinereus* Emmons.
241. *Thelia univittata* Harr. is *godingi* Van D.
242. *Thelia bimaculata* Fabr., correct.
243. *Telamona scalaris* Fairm., correct. *Heliria scalaris* Fairm.
243. *Telamona tristis* Fitch, correct.
244. *Telamona unicolor* Fitch, correct.
144. *Telamona fasciata* Fitch, correct. Male of *unicolor* Fh.
244. *Telamona reclinata* Fitch, correct.
245. *Publilia concava* Say, correct.
246. *Carynota mera* Say, correct.
246. *Carynota picta*, n. sp., is *C. porphyrea* Fairm.
247. *Ophiderma marmorata* Say is *Carynota stupida* Walk. (*muskokensis* Godg.).
248. *Ophiderma inornata* Say is *flava* Godg., a little clouded with reddish.
248. *Tragopa brunnea* Prov. is *Acutalis semicrema* Say.
250. *Platycotis 4-vittata* Say, correct.

251. *Platycotis nigromaculata*, n. sp., is *P. sagittata* Germ.

[Under the name *Telamona querci* Fh. is a species I cannot distinguish from *obsoleta* Ball (from memory only) but it is certainly not *querci*.]

253. *Bruchomorpha oculata* Newm., correct.

254. *Embolonia tricarinata*, n. gen. et. sp., is the macropterous form of *Bruchomorpha oculata* Newm.

255. *Aphrophora parallela* Say, correct.

256. *Aphrophora 4-notata* Say, correct.

256. *Aphrophora quadrangularis* Say, correct. *Lepyronia id.*

257. *Philænus spumarius* Linn., correct.

258. *Philænus lineatus* Linn., correct.

258. *Philænus albiceps* Prov., is *spumarius* var. *leucocephala* Linn.

259. *Clastoptera obtusa* Say, correct.

260. *Clastoptera proteus* Fitch is *obtusa* var. *tristis* Van D.

260. *Clastoptera saint-cyri* Prov. is the variety of *proteus* later named subspecies *flava* by Ball.

263. *Tettigonia viridis* Fabr. This is the European *viridis* Linn. As there seems to be no reason to question Provancher's statement that this specimen was taken in Quebec we must add the species to our list of North American Hemiptera.

263. *Tettigonia tripunctata* Sign is *Kolla tripunctata* Fitch.

265. *Proconia undata* Fabr., correct.

265. *Proconia costalis* Fabr., correct.

266. *Diedrocephala mollipes* Say is *Dræculacephala noveboracensis* Fitch,

267. *Diedrocephala coccinea* Forst., correct.

267. *Diedrocephala hieroglyphica* Say is *Tettigoniella gothica* Sign.

268. *Helochara communis* Fitch, correct.

268. *Acopsis viridis* Linn. is *Dræculacephala mollipes* Say.

269. *Gypona quebecensis* Prov. Under this name is straight *cana* Burm. It is not the species formerly sent to me by Provancher as *quebecensis* which was smaller and of a deeper green color.

269. *Gypona hullensis*, n. sp., is *pectoralis* Spangb.

270. *Eucanthus orbitalis* Fitch. Dr. Ball now places this as a synonym of *E. acuminatus* Fabr.

270. *Penthimia picta* Prov. The specimen is missing from this label but there can be no question that it is the male of *americana* Fitch.

275. *Platymetopius acutus* Say, correct.

275. *Platymetopius magdalensis*, n. sp. This is the species later described by Prof. Osborn as *obscurus*.
276. *Scaphoideus immistus* Say, correct.
277. *Scaphoideus auronitens*, n. sp., correct.
278. *Deltocephalus curtisii* Fh., correct. *Athysanus curtisii* Fh.
278. *Deltocephalus inimicus* Say, correct.
279. *Deltocephalus citronellus* Prov. The insect on this label is a *Thamnotettix* probably still undescribed. It is not the form described in the NAT. CAN., p. 378.
279. *Deltocephalus minkii* Fieb., correct.
280. *Deltocephalus sayi* Fitch, correct.
280. *Selenocephalus placidus*, n. sp. This is an *Acucephalus* new to me. It has a dark shade under the sharp lunately rounded anterior margin of the vertex and the apex of the elytra are coarsely alternated with fuscous points which are not properly indicated in Provancher's description. It may be one of the European species already recognized from this country.
281. *Athysanus obsoletus* Kirsch. is now known as *relativus* Gill. & Baker.
282. *Athysanus plutonius* Uhler. This has more recently been separated out as a distinct species under the name *uhleri* Ball.
282. *Acocephalus circumflexus*, n. sp., is the male of *albifrons* Linn.
283. *Thamnotettix citronellus* Prov. Under this name is a very pale specimen of *eburata* Van D., but it does not answer to the description in the NAT. CAN., p. 378, and cannot be that insect.
284. *Thamnotettix clitellarius* Say, correct.
284. *Thamnotettix subcupræus* Prov., correct.
284. *Thamnotettix melanogaster* Prov., correct.
285. *Thamnotettix decipiens*, n. sp. The only specimen on this label is much paler than this species is generally found in the east.
285. *Thamnotettix seminudus* Say, correct. *Eutettix seminuda* Say.
286. *Jassus unicolor* Fh., correct. *Chlorotettix unicolor* Fh.
286. *Allygus irroratus* Say, correct. *Phlepsius irroratus* Say.
287. *Cicadula 6-notata* Fall., correct.
288. *Bythoscopus clitellarius* Fitch is *Idiocerus provancheri* Van D.
289. *Bythoscopus fenestratus* Fh. is a pale form of *Oncopsis nigrinasi* Fh.
289. *Bythoscopus variegatus* Fh., correct. *Oncopsis variegatus* Fh.
290. *Bythoscopus pruni* n. sp., correct. *Oncopsis pruni* Prov.
291. *Idiocerus pallidus* Fitch, correct.

292. *Idiocerus verticis* Say. I was not able to locate this nearer than to place it in the *alternatus* group. It is not the western *verticis*.
292. *Idiocerus duzeei*, n. sp., correct.
292. *Idiocerus subbifasciatus* Say is *lachrymalis* Fitch.
293. *Idiocerus alternatus* Fitch, correct.
293. *Idiocerus novellus* Say, correct. *Agallia novella* Say.
294. *Pediopsis viridis* Fitch, correct.
295. *Pediopsis basalis* Van D., correct.
295. *Pediopsis insignis* Van D., correct. Now known as *trimaculata* Fitch. This genus must be known as *Macropsis*.
295. *Pediopsis flavescens* Prov. A small female of *Oncopsis nigrinasi* Fh.
296. *Agallia sanguinolenta* Prov., correct.
296. *Agallia 4-punctata* Prov., correct.
298. *Erythroneura mali*, n. sp., is *Dicraneura communis* and must be known as *Dicraneura mali* Prov.
298. *Erythroneura vitis* Harris, correct.
299. *Erythroneura vitifex* Fitch, correct.
299. *Erythroneura vulnerata* Fitch, correct.
299. *Erythroneura rosæ* Linn., correct. These are now placed in *Typhlocyba*.
300. *Typhlocyba jocosa* Prov. A reddish form of *Balclutha punctata* Thunb.
301. *Typhlocyba punctata* Thunb. is the common green form of that species.
335. *Cymus angustatus* Stal., correct.
336. *Aradus abbas* Bergr., correct.
336. *Coriscus flavo-marginatus* Scholz., correct.
337. *Delphax bifasciatus*, n. sp., is *Stobaera tricarinata* Say, a little faded.
338. *Ceresa subulata* Say is *constans* Walk.
338. *Helochara bifida* Say, correct. *Kolla bifida* Say.
339. *Deltocephalus chlamydatus*, n. sp. is an *Athysanus* later described as *infuscata* by Gillette and Baker.
339. *Deltocephalus superbus*, n. sp., is a *Xestocephalus* later described by me as *fulvocapitatus*.
- 34c. *Erythroneura obliqua* Say, correct. *Typhlocyba obliqua* Say.
340. *Typhlocyba unica*, n. sp., is an *Empoasca* later described as *splendida* by Gillette.